

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P554730

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-94-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P554730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-2HI-35-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

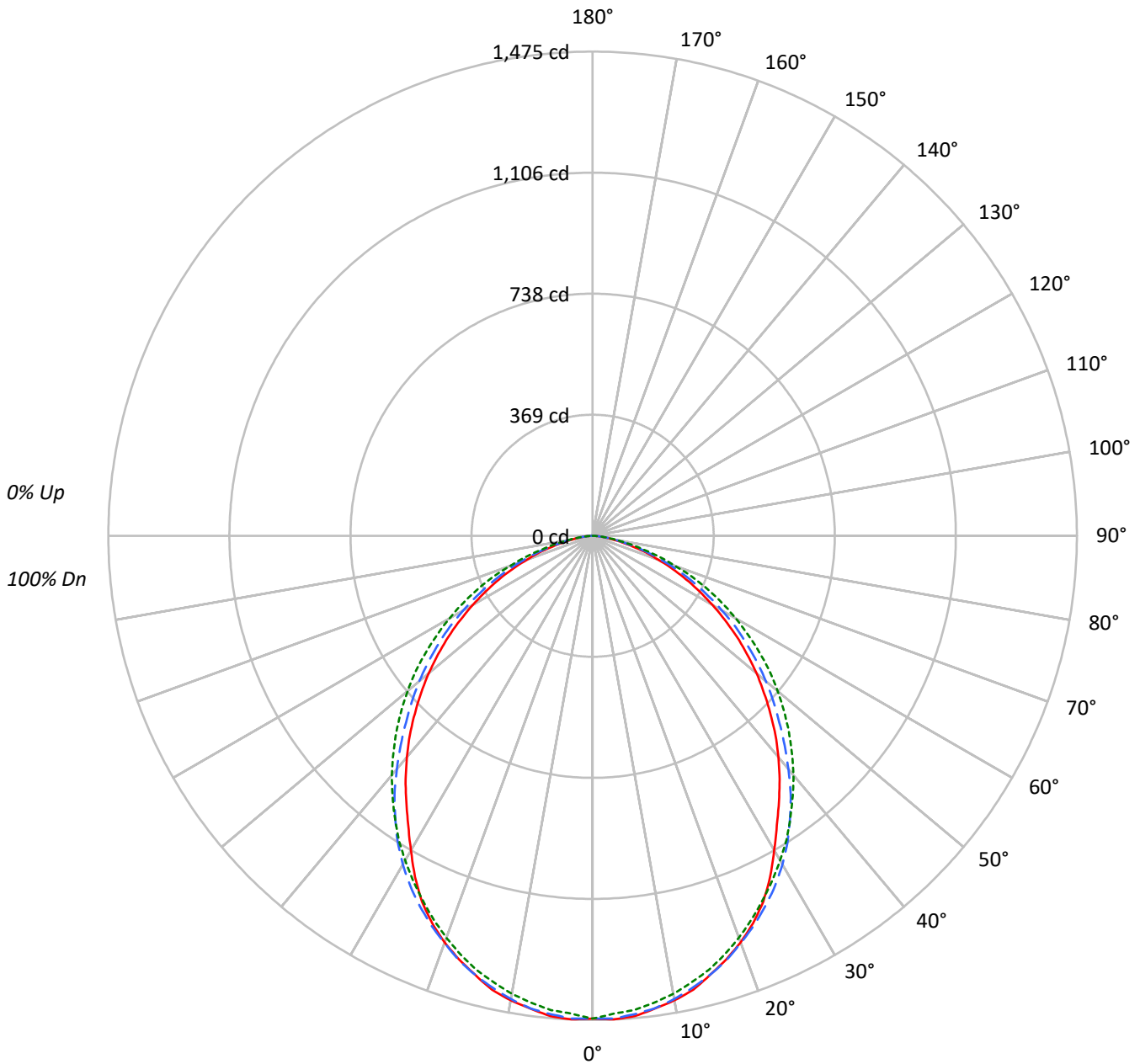
Lumens per Lamp: N/A
Luminaire Lumens: 3401.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7916	7916	7916
5°	7937	7903	7836
10°	7853	7831	7742
15°	7714	7714	7626
20°	7550	7560	7463
25°	7302	7392	7274
30°	6876	7185	7097
35°	6497	6887	6898
40°	6181	6515	6686
45°	5828	6120	6434
50°	5455	5767	6160
55°	5031	5365	5827
60°	4532	4897	5420
65°	4001	4354	4930
70°	3334	3707	4187
75°	2620	2961	3279
80°	1875	2083	2312
85°	1223	1223	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	4.1
10°-20°	389.0	11.4
20°-30°	568.5	16.7
30°-40°	645.3	19.0
40°-50°	623.0	18.3
50°-60°	513.9	15.1
60°-70°	342.2	10.1
70°-80°	153.1	4.5
80°-90°	27.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1096.0	32.2
0°-40°	1741.4	51.2
0°-60°	2878.3	84.6
0°-90°	3401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1469	1469	1463	1455	1450	139
15°	1384	1388	1384	1378	1369	390
25°	1230	1239	1245	1236	1225	563
35°	989	1002	1048	1054	1050	620
45°	766	779	804	841	845	591
55°	536	545	572	604	621	479
65°	314	323	342	366	387	312
75°	126	133	142	149	158	138
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1474.8	1475.4	1472.0	1462.9	1457.3
5°	1469.1	1468.6	1462.9	1455.0	1450.5
7.5°	1452.8	1453.9	1452.2	1440.9	1434.7
10°	1436.9	1437.5	1433.0	1423.9	1416.6
12.5°	1416.6	1416.0	1409.8	1405.3	1393.4
15°	1384.4	1387.8	1384.4	1378.2	1368.6
17.5°	1353.3	1353.3	1355.6	1344.8	1337.5
20°	1318.3	1320.0	1320.0	1311.5	1303.0
22.5°	1277.6	1282.7	1284.4	1275.3	1265.2
25°	1229.6	1239.2	1244.8	1235.8	1225.0
27.5°	1171.4	1186.1	1203.0	1196.2	1184.4
30°	1106.4	1127.9	1156.1	1150.5	1142.0
32.5°	1044.8	1066.3	1105.3	1103.0	1098.5
35°	988.9	1002.4	1048.2	1053.8	1049.9
37.5°	935.7	948.2	991.1	1004.1	1000.7
40°	879.8	893.4	927.3	950.4	951.6
42.5°	824.4	837.4	865.1	898.4	898.4
45°	765.7	778.6	804.1	840.8	845.3
47.5°	708.0	721.6	746.4	783.2	790.5
50°	651.5	663.9	688.8	724.4	735.7
52.5°	592.7	606.3	630.6	663.4	679.8
55°	536.2	545.3	571.8	603.5	621.0
57.5°	477.5	485.9	515.9	543.0	561.1
60°	421.0	431.7	454.9	482.6	503.5
62.5°	366.7	378.0	397.8	422.1	445.8
65°	314.2	322.6	341.9	366.2	387.1
67.5°	263.3	270.7	289.9	306.8	328.9
70°	211.9	221.5	235.6	252.0	266.1
72.5°	170.6	174.6	186.5	198.3	213.0
75°	126.0	132.8	142.4	149.2	157.7
77.5°	90.4	94.4	100.0	105.7	113.6
80°	60.5	62.2	67.2	68.4	74.6
82.5°	36.7	37.9	39.0	39.6	41.8
85°	19.8	19.8	19.8	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)